

AMENDMENT

Amendment to the Claims

In the Claims:

Please cancel Claims 1-4, 6-8, and 13-15.

Please cancel previously non-elected Claims 21-55.

Please amend Claims 5, 9, 10, and 11 as follows:

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Twice Amended) [The] A contactless energy transfer apparatus [of Claim 1,] comprising:

(a) a portable receiving unit including:

(i) a receiver coil; and

(ii) a housing in which the receiver coil is disposed, said housing supporting the receiver coil; and

(b) a flux generator including:

(i) a housing adapted to be disposed proximate to the housing of the receiving unit;

(ii) a magnetic field generator comprising at least one permanent magnet disposed within the housing of the flux generator; and

(iii) a prime mover drivingly coupled with the at least one permanent magnet, causing said at least one permanent magnet to move relative to the receiver coil, movement of said at least one permanent magnet producing a varying magnetic field that is coupled to the receiver coil, inducing an electrical current to flow in the receiver coil, wherein the prime mover is disposed outside the housing of the flux generator and is drivingly coupled [to said element of the magnetic field generator] with said at least one permanent magnet through a driven shaft.

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Amended) [The] A contactless energy transfer apparatus [of Claim 8,] comprising:

1 (a) a portable receiving unit including:
2 (i) a receiver coil; and
3 (ii) a housing in which the receiver coil is disposed, said housing
4 supporting the receiver coil; and
5 (b) a flux generator including:
6 (i) a housing adapted to be disposed proximate to the housing of the
7 receiving unit;
8 (ii) a magnetic field generator comprising a plurality of permanent magnets
9 and a movable support on which the plurality of permanent magnets are mounted disposed within the
10 housing of the flux generator; and
11 (iii) a prime mover drivingly coupled to the movable support, causing said
12 movable support to move relative to the receiver coil, movement of said movable support producing a
13 varying magnetic field that is coupled to the receiver coil, inducing an electrical current to flow in the
14 receiver coil, wherein the support is caused to move reciprocally back and forth in a reciprocating motion.

15 10. (Amended) [The] A contactless energy transfer apparatus [of Claim 1,] comprising:

16 (a) a portable receiving unit including:
17 (i) a receiver coil; and
18 (ii) a housing in which the receiver coil is disposed, said housing
19 supporting the receiver coil; and
20 (b) a flux generator including:
21 (i) a housing adapted to be disposed proximate to the housing of the
22 receiving unit;
23 (ii) a magnetic field generator comprising at least one permanent magnet
24 disposed and a magnetic flux shunt disposed within the housing of the flux generator, the magnetic
25 flux shunt being configured to be moveable between a shunt position, in which a magnetic field
26 produced by said at least one permanent magnet of the magnetic field generator is shunted along a
27 path that includes the receiver coil, and an unshunted position, in which a magnetic field produced by
28 said at least one permanent magnet of the magnetic field generator is not shunted; and
29 (iii) a prime mover drivingly coupled with the [wherein the element of the
30 magnetic field generator that is drivingly coupled to the prime mover comprises a] magnetic flux

1 shunt [that is moved by the prime mover], to cause the magnetic flux shunt to move between the
2 shunt position and the unshunt position, thereby periodically shunting a magnetic field produced by
3 said at least one permanent magnet of the magnetic field generator, causing the magnetic field to vary
4 along a path that includes the receiver coil.

5 11. (Amended) [The] A contactless energy transfer apparatus [of Claim 1, further]
6 comprising:

7 (a) a portable receiving unit including:

8 (i) a receiver coil; and

9 (ii) a housing in which the receiver coil is disposed, said housing
10 supporting the receiver coil; and

11 (b) a flux generator including:

12 (i) a housing adapted to be disposed proximate to the housing of the
13 receiving unit;

14 (ii) a magnetic field generator comprising at least one permanent magnet
15 disposed within the housing of the flux generator;

16 (iii) a prime mover drivingly coupled with the at least one permanent
17 magnet, causing said at least one permanent magnet to move relative to the receiver coil, movement
18 of said at least one permanent magnet producing a varying magnetic field that is coupled to a core of
19 the receiver coil, inducing an electrical current to flow in the receiver coil; and

20 (iv) an adjustment member that is selectively actuatable to change a
21 maximum magnetic flux that is coupled to the core of the receiver coil.

22 12. (Original) The energy transfer apparatus of Claim 11, wherein the adjustment member
23 controls a speed with which the element of the magnetic field generator is moved.

24 13. (Cancelled)

25 14. (Cancelled)

26 15. (Cancelled)

27 16 - 20. (Previously cancelled)

28 21-55. (Cancelled - Previously Withdrawn (non-elected claims))

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